Weekly Report

梅鸿辉

November 19, 2017

1. IDEA项目申请

翻译了陈老师写的。

2. Idea evaluation: 不同分辨率/显示面积间迁移的设计准则

还需要寻找一下相关工作并确定具体点

3. Others

- Echarts: 拆分文件、分配任务

4. Paper Reading

4.1 Multi-resolution

[1] L. Chittaro, “Visualizing information on mobile devices,” Computer (Long. Beach. Calif)., vol. 39, no. 3, pp. 40–45, 2006. [2] L. Shupp, C. Andrews, M.

一些小屏设计的规则

[2] Dickey-Kurdziolek, B. Yost, and C. North, “Shaping the display of the future: The effects of display size and curvature on user performance and insights,” Human-Computer Interact., vol. 24, no. 1–2, pp. 230–272, 2009.

[3] B. Yost and C. North, “The perceptual scalability of visualization,” IEEE Trans. Vis. Comput. Graph., vol. 12, no. 5, pp. 837–844, 2006.

[4] A. P. Sawant and C. G. Healey, “A Survey of Display Device Properties and Visual Acuity for Visualization,” NCSU Tech. Rep., 2005.

[5] C. Andrews, A. Endert, B. Yost, and C. North, “Information visualization on large, high-resolution displays: Issues, challenges, and opportunities,” Inf. Vis., vol. 10, no. 4, pp. 341–355, 2011.

一些相关工作，基本只涉及大屏

[6] E. C. Alexander, C. C. Chang, M. Shimabukuro, S. Franconeri, C. Collins, and M. Gleicher, “Perceptual Biases in Font Size as a Data Encoding,” IEEE Trans. Vis. Comput. Graph., vol. XX, no. X, pp. 1–14, 2017.

因为提到quantitative model所以看了一下，还需要进一步研究一下

[7] R. Langner, T. Horak, and R. Dachselt, “VISTILES : Coordinating and Combining Co-located Mobile Devices for Visual Data Exploration,” Tvcg, vol. 24, no. 1, pp. 626–636, 2017.

主要是硬件和软件的配合

[8] N. Rodrigues and D. Weiskopf, “Nonlinear Dot Plots,” IEEE Trans. Vis. Comput. Graph., vol. 24, no. 1, pp. 616–625, 2017.

偏向可视设计

[9] B. Saket, A. Srinivasan, E. D. Ragan, and A. Endert, “Evaluating Interactive Graphical Encodings for Data Visualization,” IEEE Trans. Vis. Comput. Graph., vol. 14, no. 8, pp. 1–1, 2017.

其中对视觉通道的分类可以借鉴一下

[10] G. Ellis and A. Dix, “A Taxonomy of Clutter Reduction for Information Visualisation,” vol. 13, no. 6, pp. 1216–1223, 2007.

想找找有没有其他累死鱼眼的space distortion，似乎没有

4.2 Others

[11] H. Lam, M. Tory, and T. Munzner, “Bridging From Goals to Tasks with Design Study Analysis Reports,” IEEE Trans. Vis. Comput. Graph., vol. 24, no. 1, pp. 435–445, 2017.

指导design study

TODO Next Week

- ECharts论文|Related work
- 继续idea evaluation
- 分配点任务给两个硕士生做

Works Progresses

TASK	PROGRESS	TODO	ISSUES	DATE
专利（两个）	1/2	继续按照要求修改示意图		
VisComposer	IUI	等待结果		
VisEvo		idea evaluation		下周
JVLC	publicated			
电子学报	已提交	等待回复		
ECharts论文	进行中	撰写Related Works		下周